

CLAIMS

1 1. Chemiluminescent lighting element, comprising at least
2 two chambers filled respectively with an oxalate solution and
3 an activator solution, characterized in that the oxalate
4 solution takes place in a tight-closed pouch, made of thin
5 aluminium foil, lined on its interior side by a polymer, said
6 pouch being a first chamber, being itself enclosed in a tight-
7 closed pouch, bigger, made of translucent polymeric film,
8 being a second chamber, containing also the liquid activator
9 solution.

1 2. Element according to claim 1 in which the polymer
2 lining the aluminium foil is a polyolefin.

1 3. Element according to claim 1 or 2 in which the outer
2 pouch consists of two polymeric films sealed together along
3 their periphery.

1 4. Element according to claim 3 in which one of the two
2 polymeric films is lined, on its internal side, by a felt or
3 fabric made of absorbing material and compatible with the
4 oxalate and activator solutions.

periphery, with injection of oxalate solution inside the periphery delimited by the sealing,

-said pouches sealed and filled in that manner, are separated by an automated knife and sent one by one, in a sequential and temporized way, to a second machine which incorporates them in a pouch of translucent plastic,

-said second machine doing the face-to-face positioning of two tapes of flexible translucent polymer film, unrolled from storage rolls, and sealed along periphery with insertion of the aluminium pouch and of the activator solution inside said periphery, the whole of which being done in a continuous and temporized way,

-the final completed pouches being then either separated from each other by means of an automated knife into series of individual pouches, or supplied to end-user as a chain as gone off from the machine.

11. Manufacturing process according to claim 10, in which one of the two tapes of flexible translucent polymer film is lined, on the face aimed towards the other polymer tape, by a tape made of absorbing fiber felt, and is continuously sealed to the nonlined flexible polymer film tape which faces it.

12. Manufacturing process according one of the claim 11

or 10, characterized in that, at that moment of inserting the aluminium pouch and the activator solution, one or several hard particles are also inserted between the two pouches.

The invention relates to a chemiluminescent light element comprising two chambers, filled respectively with an oxalate solution (5) and an activator solution. The oxalate solution is a tight-sealed pouch (1) made of thin aluminum foil (2,3) lined on its interior side by a polymer, for instance a polyolefin, and so forms the first chamber. This latter is enclosed in a bigger tight-sealed pouch (6) made of translucent polymer film (7,8) forming the second chamber, which also contains the liquid activator (10). The outer pouch consists of two polymer films (7,8) sealed together along their periphery and contain a ball (11) able to pierce the inner pouch (1) by manual action from the user.